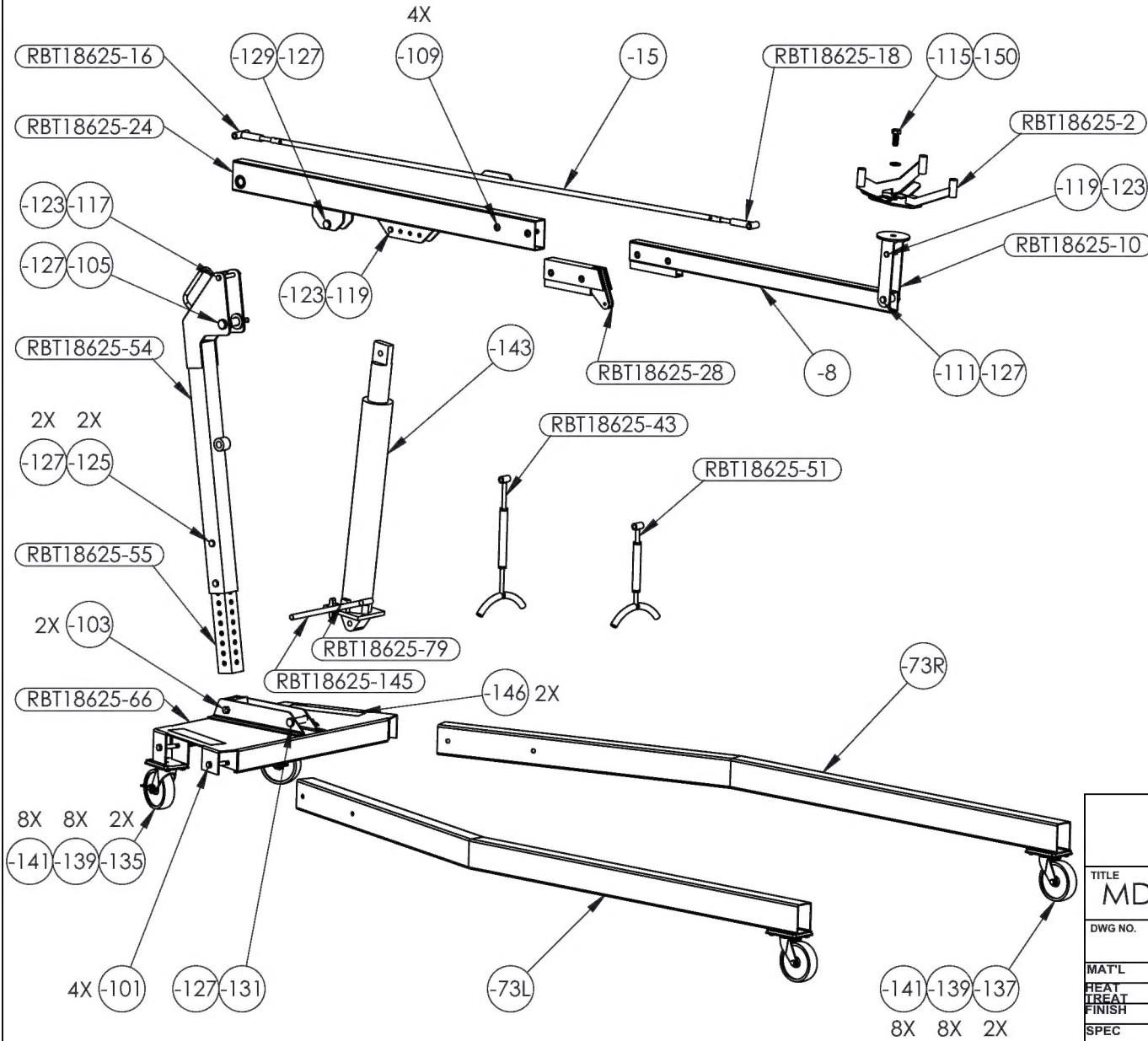


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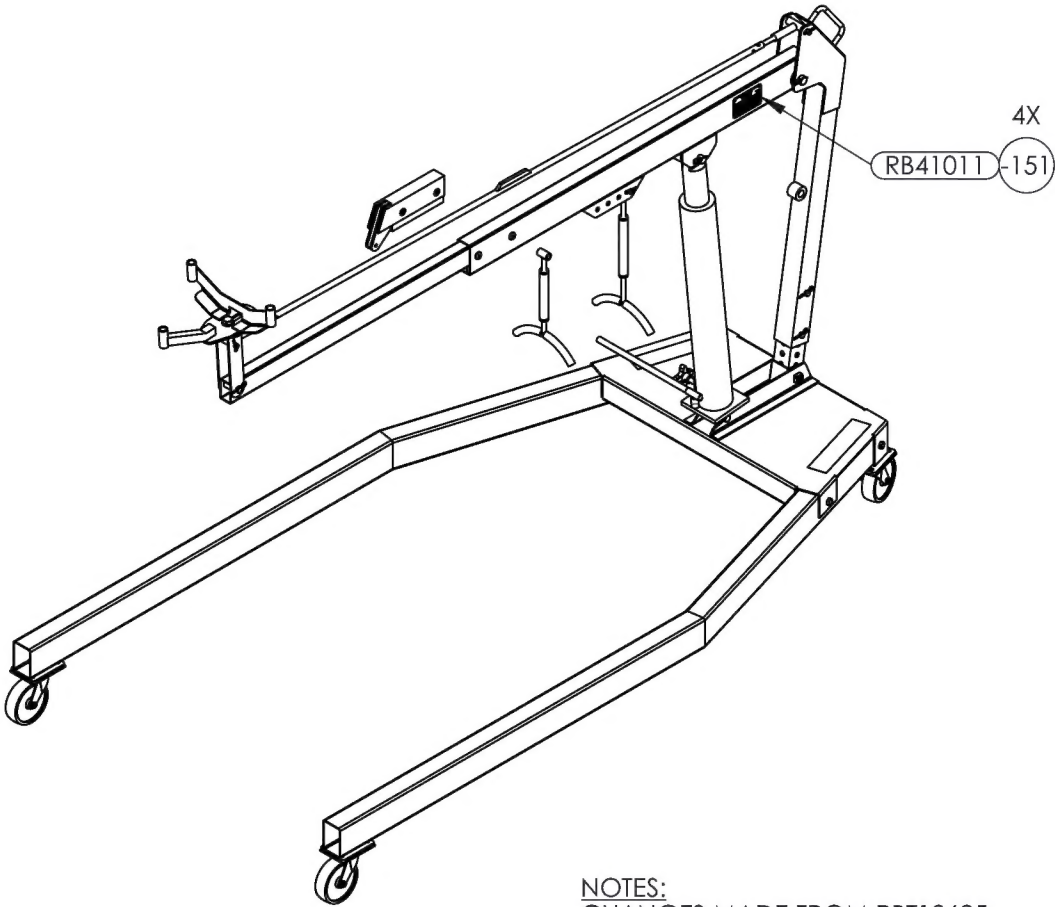


DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M	REV 2
MAT'L FEAT	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TREAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH FINISH	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: MACKOVJAK	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: CLOUGH	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	MD-500
APPROVED: GILBERT	
SCALE 1:16	DATE 12/22/2016
	SHEET 1 OF 12

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	12/28/2016	SM	JAG
2	17-0079	REVISED BOM DATA. -8 ADDED WELD SYMBOL. -13 CH'D DIM WAS 2X Ø.625 THRU ALL IS 2X Ø.625+.010/- .000 THRU ALL. WAS Ø.750 THRU ALL IS Ø.750+.010/- .000 THRU ALL. -15 CH'D WELD WAS PLUG WELD 8X IS PLUG WELD GRIND FLAT 8X.	4/3/2017	SM	JAG

ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
						1	TRANSMISSION ADAPTER		RBT18625-2	1
			X		-8	1	TRANSMISSION ADAPTER TUBE			4
						1	TRANSMISSION ADAPTER PIVOT		RBT18625-10	1
			1				BUSHING	1018/1020 CR	RBT18625-12	4
			1		-13		ADAPTER TUBE	STEEL TUBE		5
			2				THREADED BUSHING	1018/1020 CR	RBT18625-14	4
		X			-15	1	TIE-ROD ASSEMBLY			6
		1					LH THREAD	STEEL	RBT18625-15A	6
		1					RH THREAD	STEEL	RBT18625-15B	6
		1			-15C		TIE-ROD TUBE	CDS		7
		1					TAB	1018/1020 CR	RBT18625-15D	6
						1	LH BUSHING ASSEMBLY		RBT18625-16	1
						1	RH BUSHING ASSEMBLY		RBT18625-18	1
						1	BOOM ASSEMBLY		RBT18625-24	1
			1				TUBE	STEEL TUBE	RBT18625-26	4
						1	ENGINE ADAPTER ASSEMBLY		RBT18625-28	1
						1	LARGE TURNBUCKLE ASSEMBLY		RBT18625-43	1
						1	SMALL TURNBUCKLE ASSEMBLY		RBT18625-51	1
						1	UPRIGHT ASSEMBLY		RBT18625-54	1
						1	MAST	STEEL TUBE	RBT18625-55	1
						1	BASE PLATE ASSEMBLY		RBT18625-66	1
	X				-73L	1	LEFT LEG WELDMENT			8
X					-73R	1	RIGHT LEG WELDMENT			9
1	1				-73		LEG	STEEL TUBE		10
1	1				-74		LEG END	STEEL TUBE		11
1	1						WHEEL PLATE	1018/1020 CR	RBT18625-75	8,9
						1	KNOB ASSEMBLY		RBT18625-79	1
				B/O	-101	4	HEX BOLT	STEEL	3/8-16 X 2-3/4 (MCMaster-CARR #91247A635)	1
				B/O	-103	2	HEX BOLT	STEEL	7/16-14 X 2-3/4 (MCMaster-CARR #91247A680)	1
				B/O	-105	1	CLEVIS PIN	STEEL	Ø3/4 X 2-1/2 USABLE (MCMaster-CARR #98306A560)	1
				B/O	-109	4	B.H. SOCKET HEAD CAP SCREW	STEEL	3/8-16 X 5/8 (MCMaster-CARR #91255A621)	1
				B/O	-111	1	CLEVIS PIN	STEEL	Ø1/2 X 1-1/2 USABLE (MCMaster-CARR #98306A385)	1
				B/O	-115	1	HEX BOLT	STEEL	1/2-13 X 1-1/4 (MCMaster-CARR #92865A714)	1
				B/O	-117	1	CLEVIS PIN	STEEL	Ø3/8 X 2-1/2 USABLE (MCMaster-CARR #98306A283)	1
				B/O	-119	2	CLEVIS PIN	STEEL	Ø3/8 X 1-1/2 USABLE (MCMaster-CARR #98306A275)	1
				B/O	-123	3	HAIRPIN	STEEL	FOR Ø3/8 CLEVIS PIN (MCMaster-CARR #98335A049)	1
				B/O	-125	2	CLEVIS PIN	STEEL	Ø7/16 X 2 USABLE (MCMaster-CARR #98306A334)	1
				B/O	-127	6	HAIRPIN	STEEL	FOR Ø7/16 -3/4 CLEVIS PIN (MCMaster-CARR #98335A127)	1
				B/O	-129	1	CLEVIS PIN	STEEL	Ø5/8 X 1-3/4 USABLE (MCMaster-CARR #98306A497)	1
				B/O	-131	1	CLEVIS PIN	STEEL	Ø5/8 X 2-1/4USABLE (MCMaster-CARR #98306A501)	1
				B/O	-135	2	SWIVEL CASTER W/BRAKE		MSC #01507243	1
				B/O	-137	2	RIGID CASTER		MSC #01507417	1
				B/O	-139	16	B.H. SOCKET HEAD CAP SCREW	STEEL	5/16-18 X 3/8 (MCMaster-CARR #91255A576)	1
				B/O	-141	16	LOCK WASHER	STEEL	Ø5/16 (MCMaster-CARR #91150A113)	1
				B/O	-143	1	HYDRAULIC JACK		MSC #09050907	1
				B/O		1	HANDLE HYD. JACK	STEEL	RBT18625-145	1
				B/O	-146	2	NO-SKID		GASKET SPECIALTIES 1.75 X 7.9	1
				B/O	-150	1	WASHER	STEEL	Ø1/2 (MCMaster-CARR #97744A285)	1
				B/O	-151	4	RIVET	ALUMINUM	Ø1/8 X .275 (MCMaster-CARR #97447A015)	3
				B/O		1	DART PLACARD	ALUMINUM	RB41011	3
assy -73R	ASSY -73L	ASSY -15	ASSY -8							

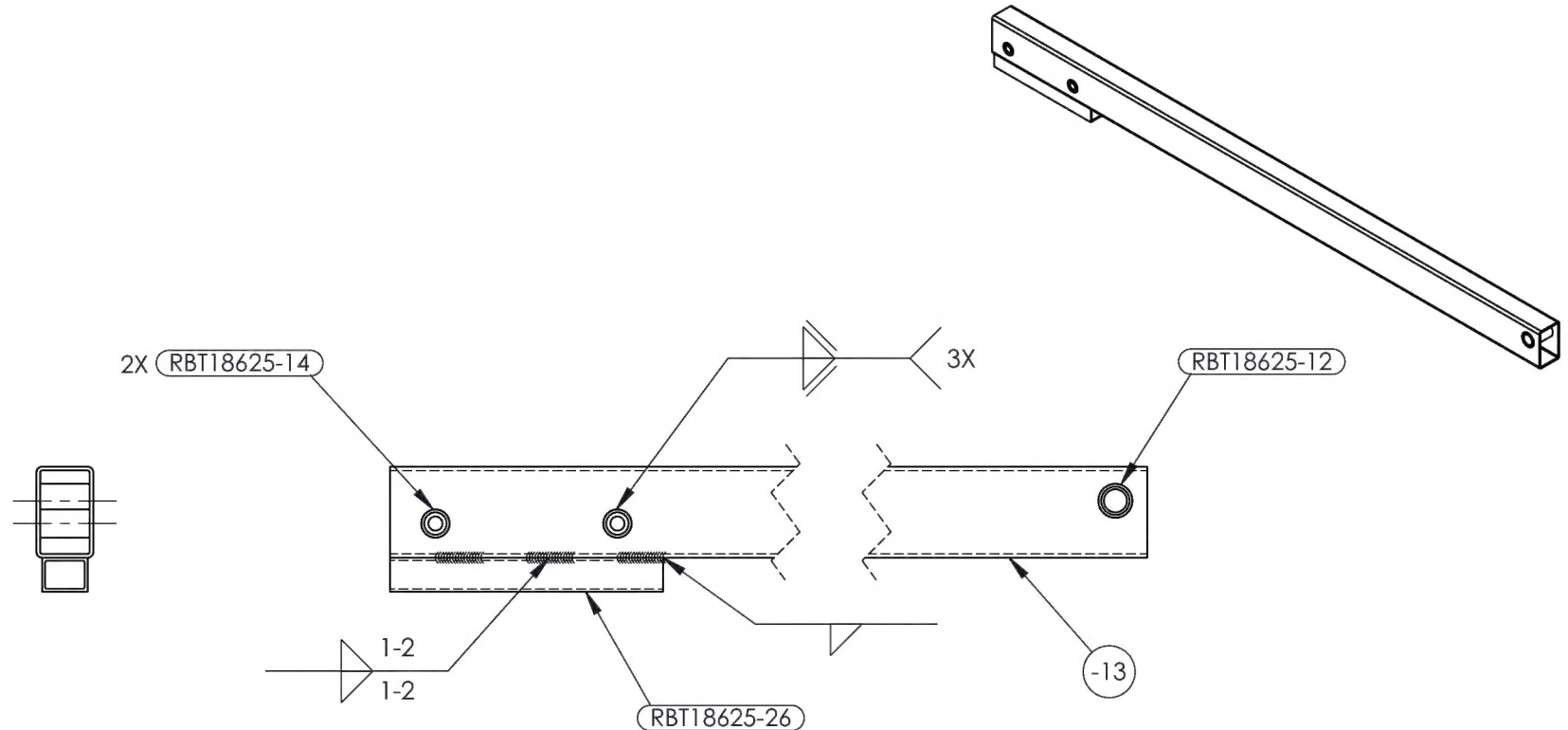


NOTES:
CHANGES MADE FROM RBT18625:
1. -8 & -15 EXTENDED 12"
2. -73R & 73L EXTENDED TO 73.6" WITH MAXIMUM WIDTH OF 38.5".

DART AEROSPACE			
TITLE MD-500 ENGINE LIFT (MODIFIED)			
DWG NO. RBT18625M			REV 2
MAT'L HEAT TREAT FINISH SPEC		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 125°✓	
DRAWN BY: MACKOVJAK		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: CLOUGH		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: GILBERT		MD-500	
SCALE 1:16		DATE 12/22/2016	SHEET 2 OF 12

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	17-0079	-8 ADDED WELD SYMBOL.	4/3/2017	SM	JAG



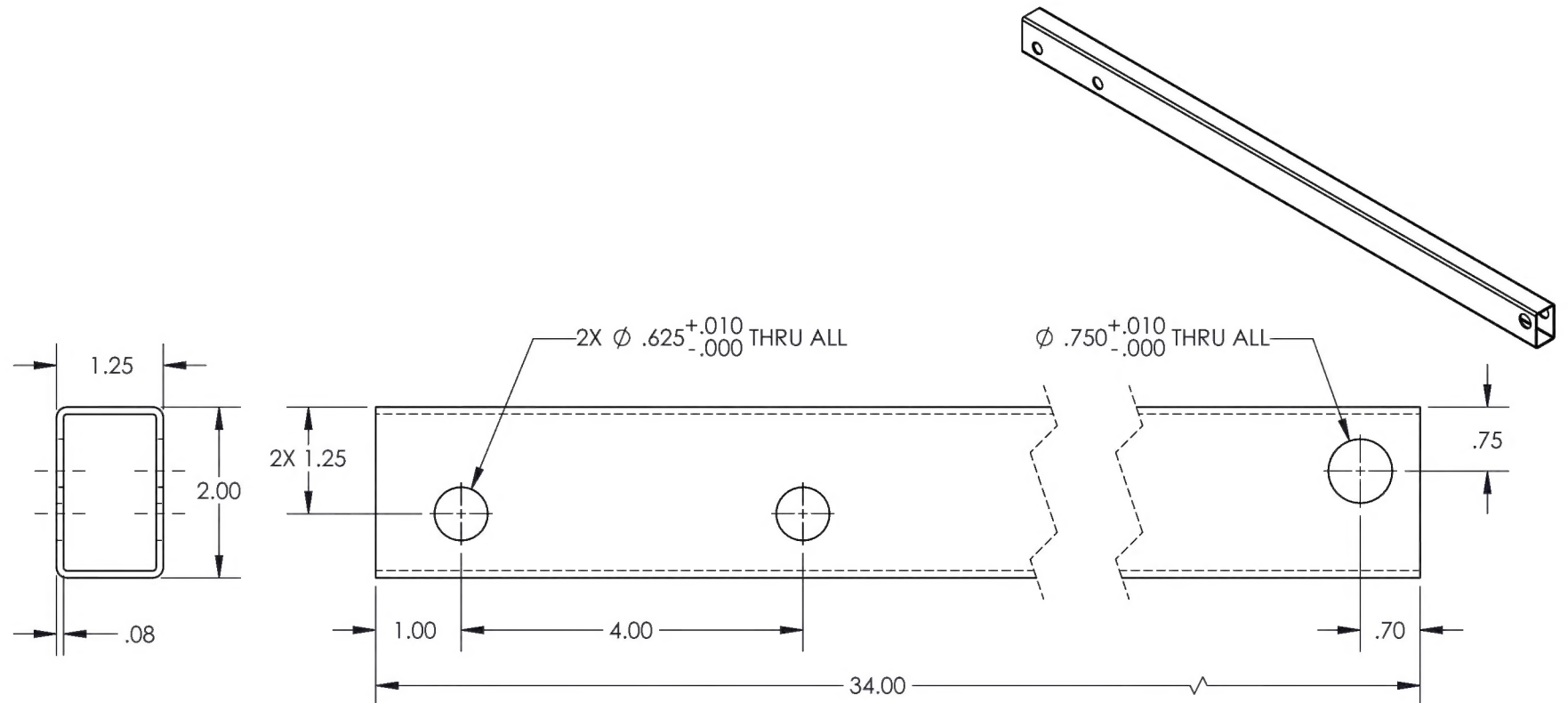
(-8)

TRANSMISSION ADAPTER TUBE

DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M-8	REV 2
MAT'L TREAT FINISH POWDER COAT BLACK	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: MACKOVJAK	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: CLOUGH	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	MD-500
APPROVED: GILBERT	
SCALE 1:4	DATE 12/22/2016
SHEET 3 OF 12	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	17-0079	-13 CH'D DIM WAS 2X Ø.625 THRU ALL IS 2X Ø.625+.010/-0.000 THRU ALL, WAS Ø.750 THRU ALL IS Ø.750+.010/-0.000 THRU ALL.	4/3/2017	SM	JAG



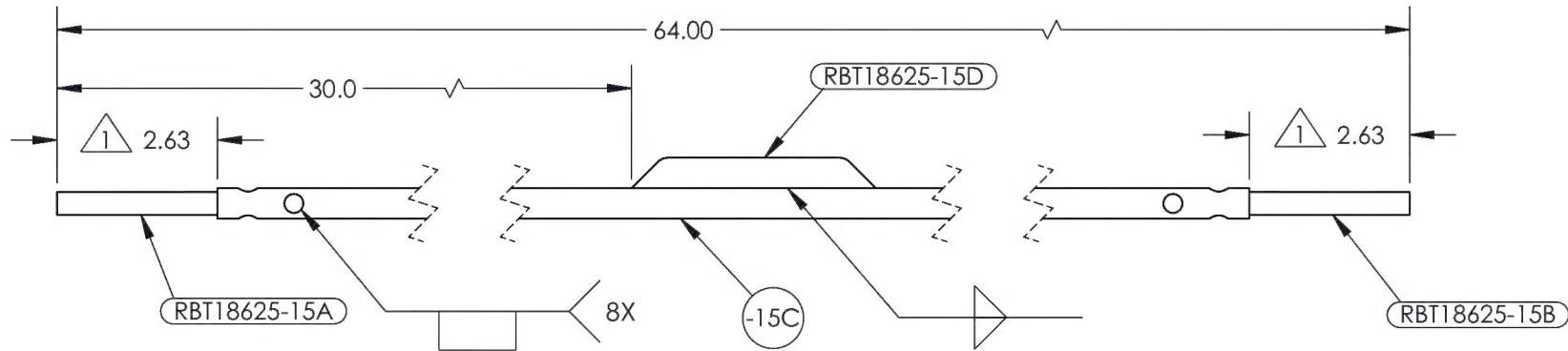
(-13)

ADAPTER TUBE

DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M-13	REV 2
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .010 FRACTIONS ± 1/8
FINISH SEE -8	.XX ± .03 ANGLES ± 1°
SPEC	.X ± .1 SURFACES = 125
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	MD-500
SCALE 1:2	DATE 12/22/2016
SHEET 4 OF 12	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	17-0079	-15 CH'D WELD WAS PLUG WELD 8X IS PLUG WELD GRIND FLAT 8X.	4/3/2017	SM	JAG



NOTE:

1 MASK THREADS BEFORE TO POWDER COATING.



TITLE
MD-500 ENGINE LIFT (MODIFIED)

DWG NO. RBT18625M-15 REV 2

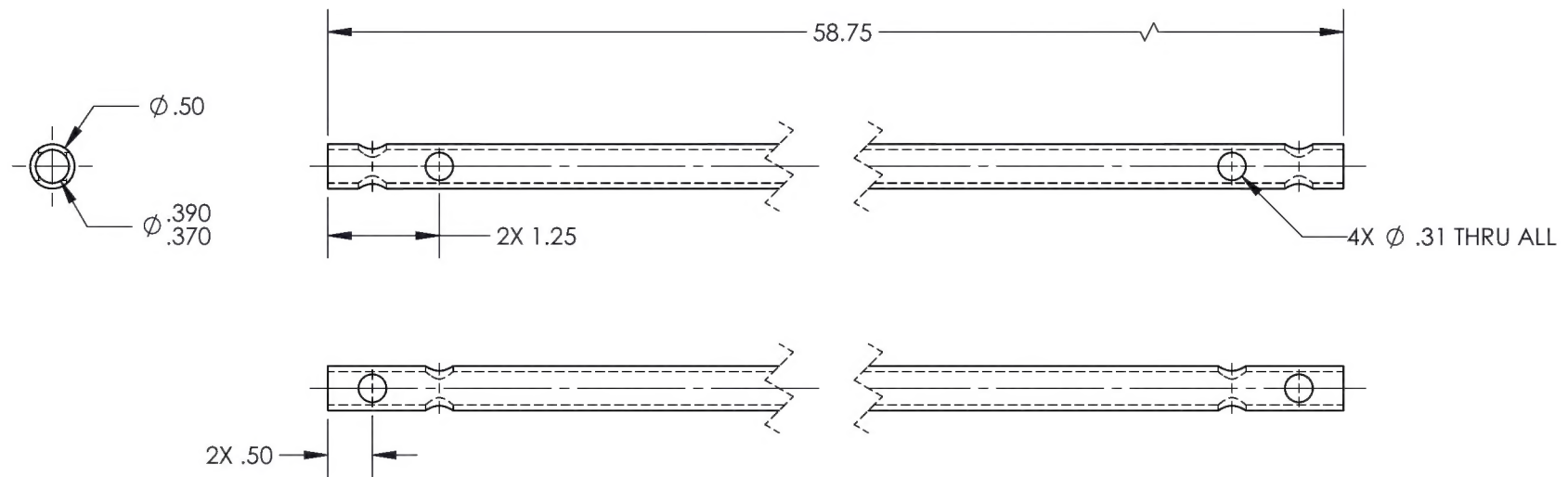
MAT'L		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH POWDER COAT BLACK		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY: MACKOVJAK		.X ± .1 SURFACES = 125°	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:3		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DATE 12/22/2016		USED ON MODEL	
SHEET 5 OF 12		MD-500	

-15

TIE-ROD ASSEMBLY

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REVISIONS				
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				APPROVED



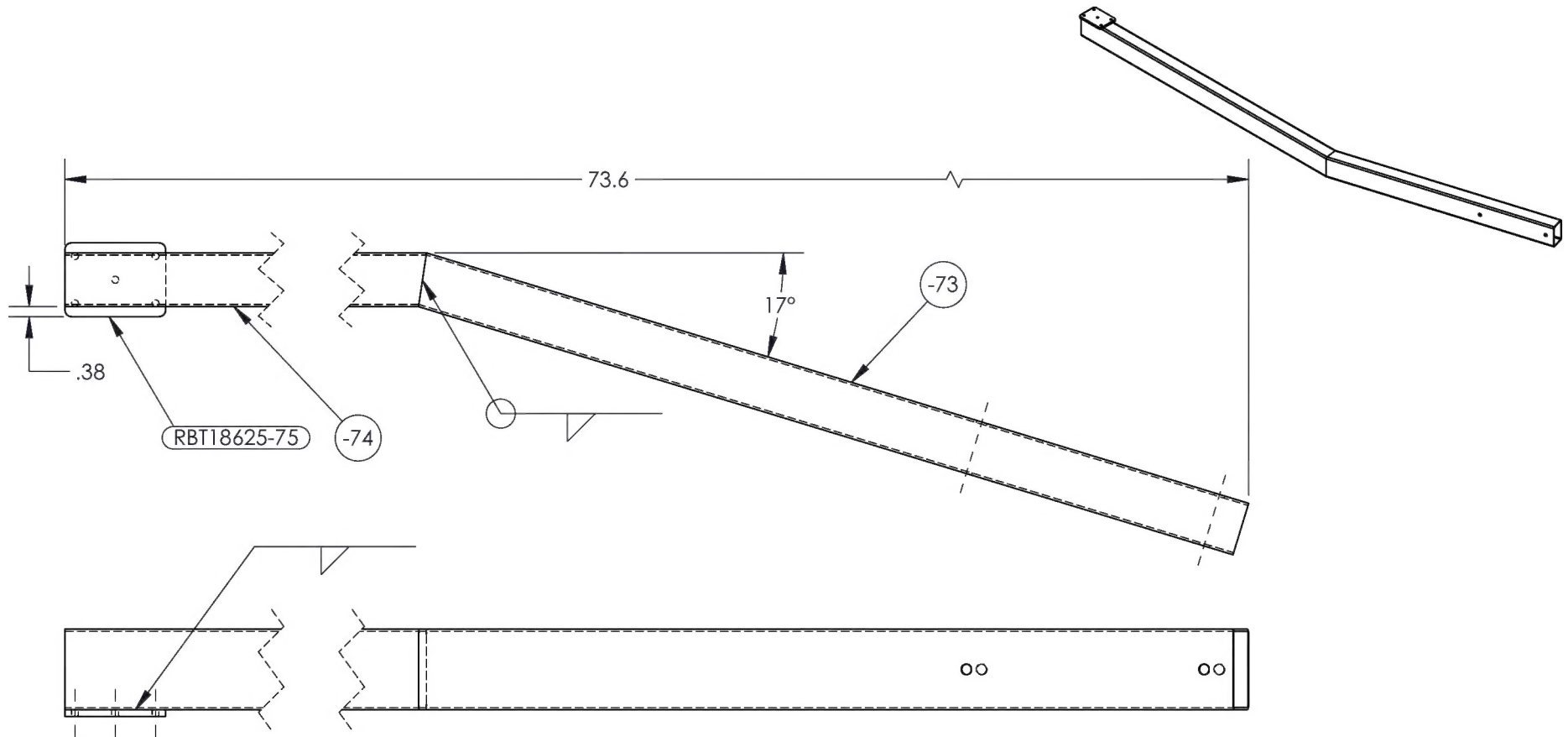
(-15C)

TIE-ROD TUBE

DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M-15C	REV 2
MAT'L CDS HEAT TREAT FINISH SEE -15 SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125°
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	MD-500
SCALE 1:2	DATE 12/22/2016
SHEET 6 OF 12	

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REVISIONS			
REV	ECR	DESCRIPTION	DATE
			INITIAL
			APPROVED

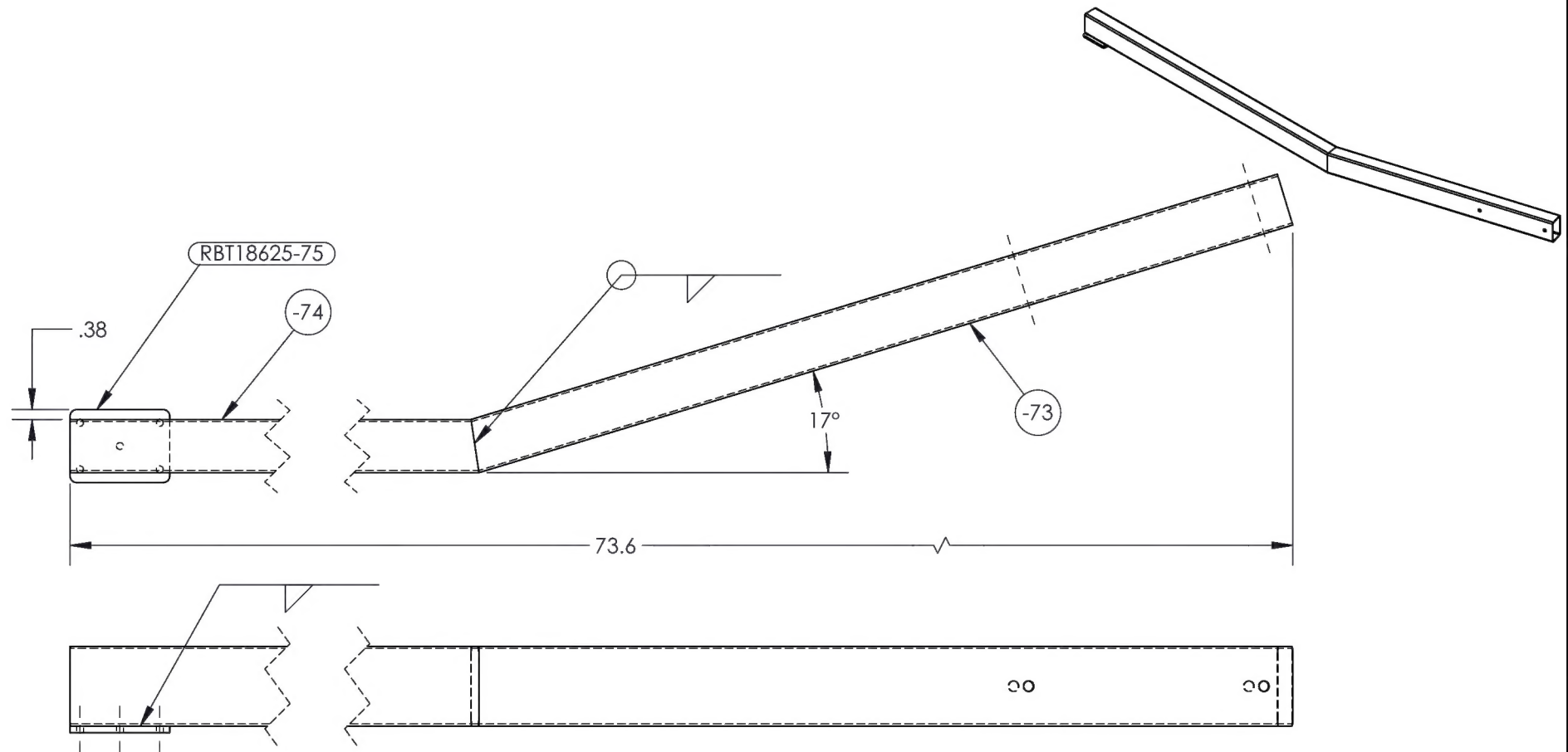


(-73L)
LEFT LEG WELDMENT

DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M-73L	REV 2
MAT'L HEAT TREAT FINISH POWDER COAT BLACK SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MACKOVJAK	USED ON MODEL
CHECKED: CLOUGH	MD-500
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:6	DATE 8/11/2004
SHEET 7 OF 12	

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REVISIONS				
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				APPROVED



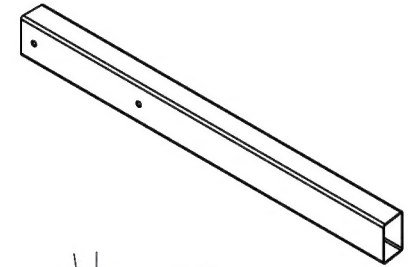
(-73R)

RIGHT LEG WELDMENT

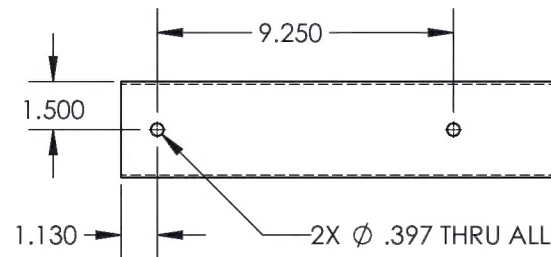
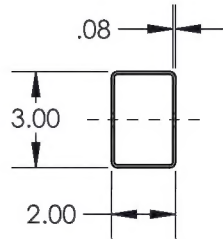
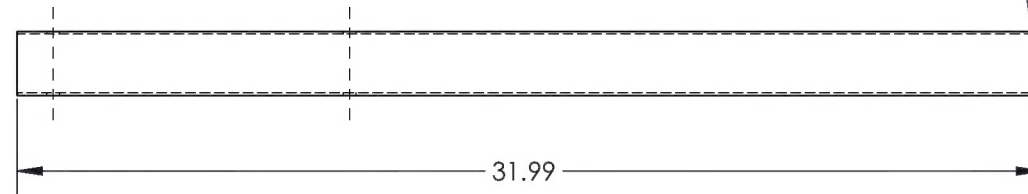
DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M-73R	REV 2
MAT'L TREAT FINISH POWDER COAT BLACK	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: MACKOVJAK	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: CLOUGH	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	MD-500
APPROVED: GILBERT	
SCALE 1:6	DATE 12/22/2016
SHEET 8 OF 12	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



8.5°



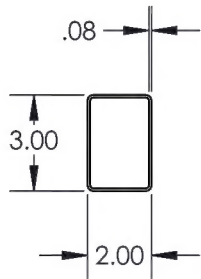
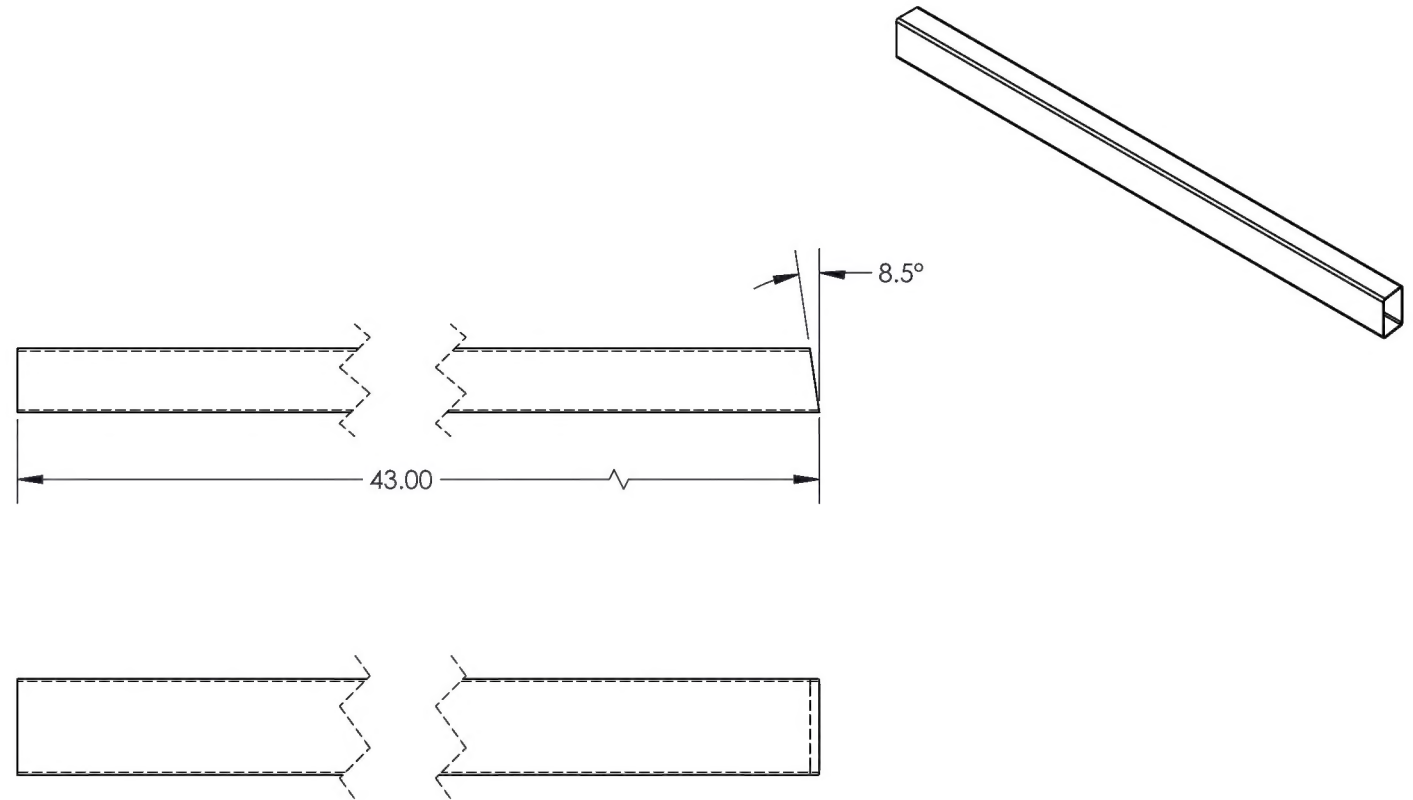
(-73)

LEG

DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M-73	REV. 2
MAT'L STEEL TUBE HEAT TREAT FINISH SEE -73R OR -73L SPEC DRAWN BY: MACKOVJAK CHECKED: CLOUGH OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL MD-500	
SCALE 1:6	DATE 12/22/2016
SHEET 9 OF 12	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

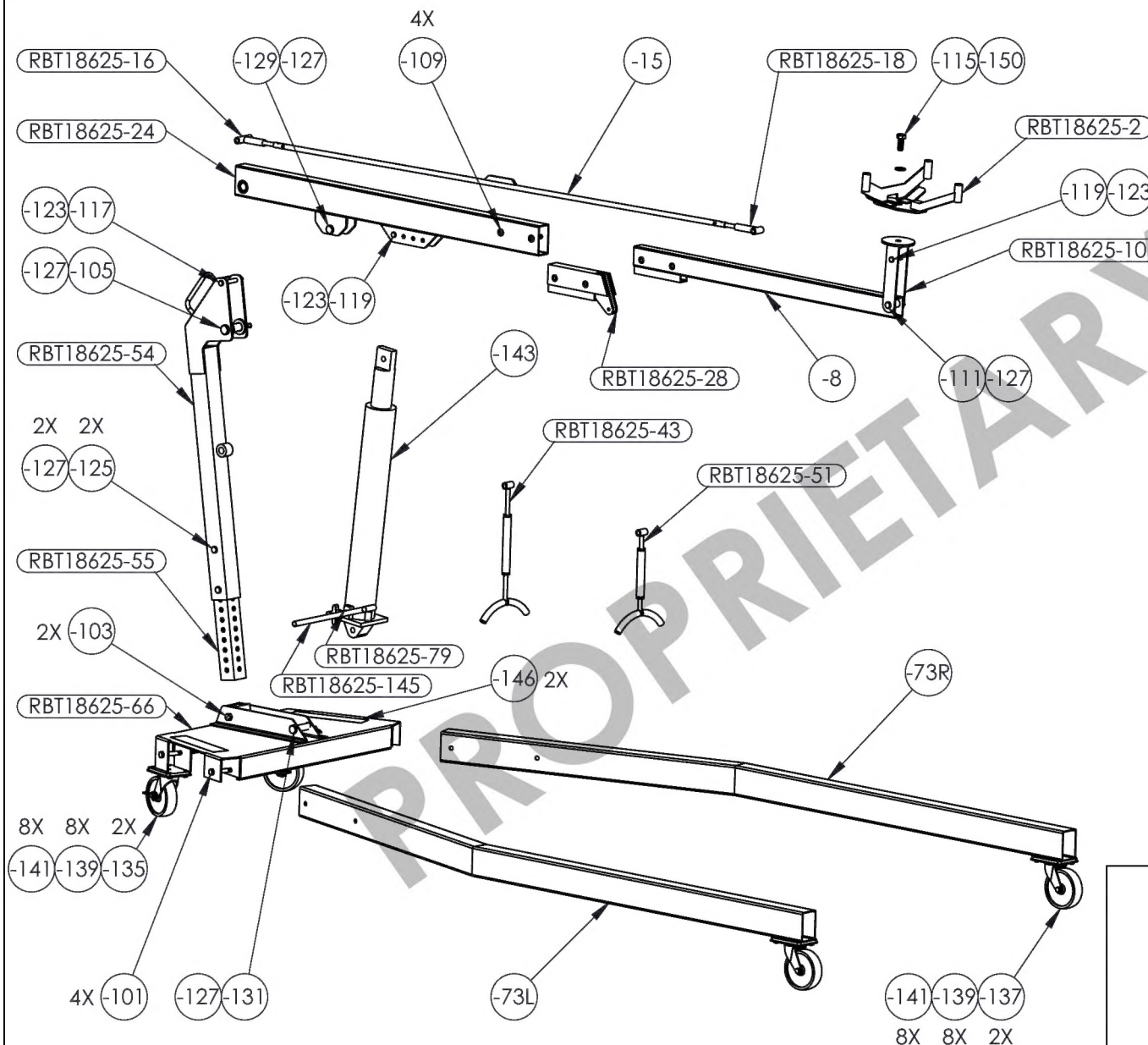


(-74)

LEG END

DART AEROSPACE	
TITLE MD-500 ENGINE LIFT (MODIFIED)	
DWG NO. RBT18625M-74	REV. 2
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -73R OR -73L	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:6	DATE 12/21/2016
	SHEET 10 OF 12

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1-800-556-4166
e-mail: sales@dartaero.com
dartaerospace.com

TITLE MD-500 ENGINE LIFT (MODIFIED)			
DWG NO RBT18625M	REV 2	CUSTOMER 1 OF 1	
SCALE 1:16	DATE 12/22/2016	SHEET 11	OF 12

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CUSTOMER PART LIST

Part #	Description	QTY
RBT18625-2	TRANSMISSION ADAPTER	1
-8	TRANSMISSION ADAPTER TUBE	1
RBT18625-10	TRANSMISSION ADAPTER PIVOT	1
-15	TIE-ROD ASSEMBLY	1
RBT18625-16	LH BUSHING ASSEMBLY	1
RBT18625-18	RH BUSHING ASSEMBLY	1
RBT18625-24	BOOM ASSEMBLY	1
RBT18625-28	ENGINE ADAPTER ASSEMBLY	1
RBT18625-43	LARGE TURNBUCKLE ASSEMBLY	1
RBT18625-51	SMALL TURNBUCKLE ASSEMBLY	1
RBT18625-54	UPRIGHT ASSEMBLY	1
RBT18625-55	MAST	1
RBT18625-66	BASE PLATE ASSEMBLY	1
-73L	LEFT LEG WELDMENT	1
-73R	RIGHT LEG WELDMENT	1
RBT18625-79	KNOB ASSEMBLY	1
-101	HEX BOLT	4
-103	HEX BOLT	2
-105	CLEVIS PIN	1
-109	B.H. SOCKET HEAD CAP SCREW	4
-111	CLEVIS PIN	1
-115	HEX BOLT	1
-117	CLEVIS PIN	1
-119	CLEVIS PIN	2
-123	HAIRPIN	3
-125	CLEVIS PIN	2
-127	HAIRPIN	6
-129	CLEVIS PIN	1
-131	CLEVIS PIN	1
-135	SWIVEL CASTER W/BRAKE	2
-137	RIGID CASTER	2
-139	B.H. SOCKET HEAD CAP SCREW	16
-141	LOCK WASHER	16
-143	HYDRAULIC JACK	1
RBT18625-145	HANDLE HYD. JACK	1
-146	NO-SKID	2
-150	WASHER	1



190 S. Danebo Ave., Eugene, OR. 97402
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dartaerospace.com

TITLE
MD-500 ENGINE LIFT (MODIFIED)

DWG NO.	RBT18625M	REV	2	CUSTOMER 2 OF 2
SCALE	1:16	DATE	12/22/2016	SHEET 12 OF 12